



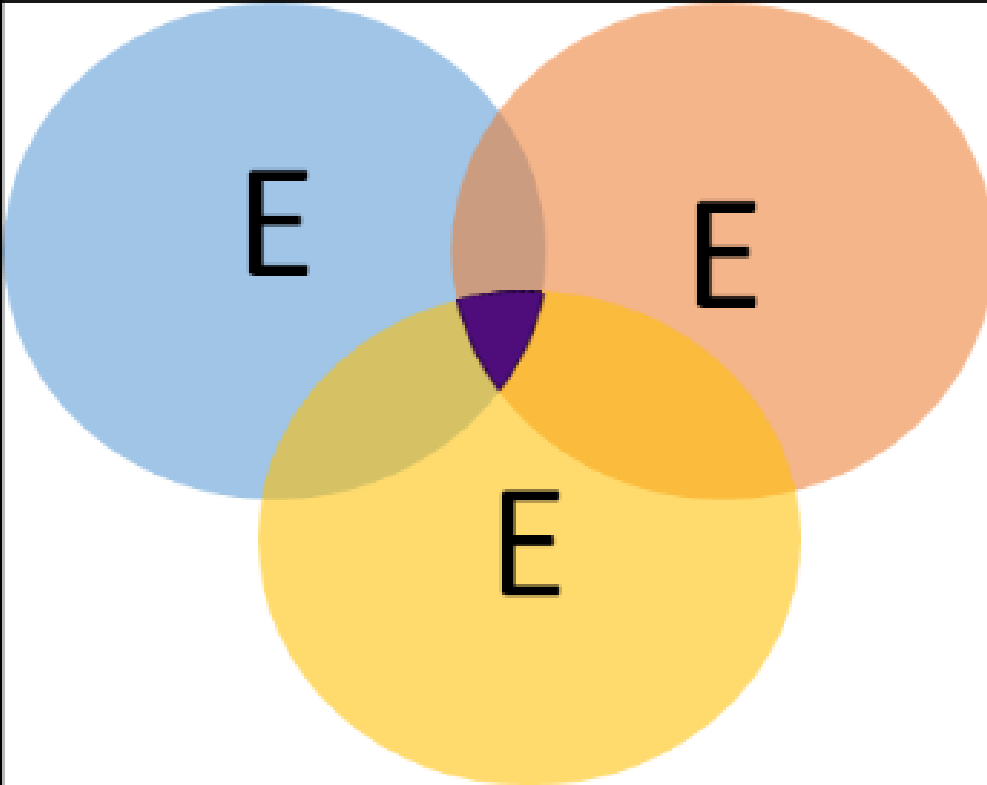
California's Sustainable Transportation Efforts

Ellen Greenberg, FAICP

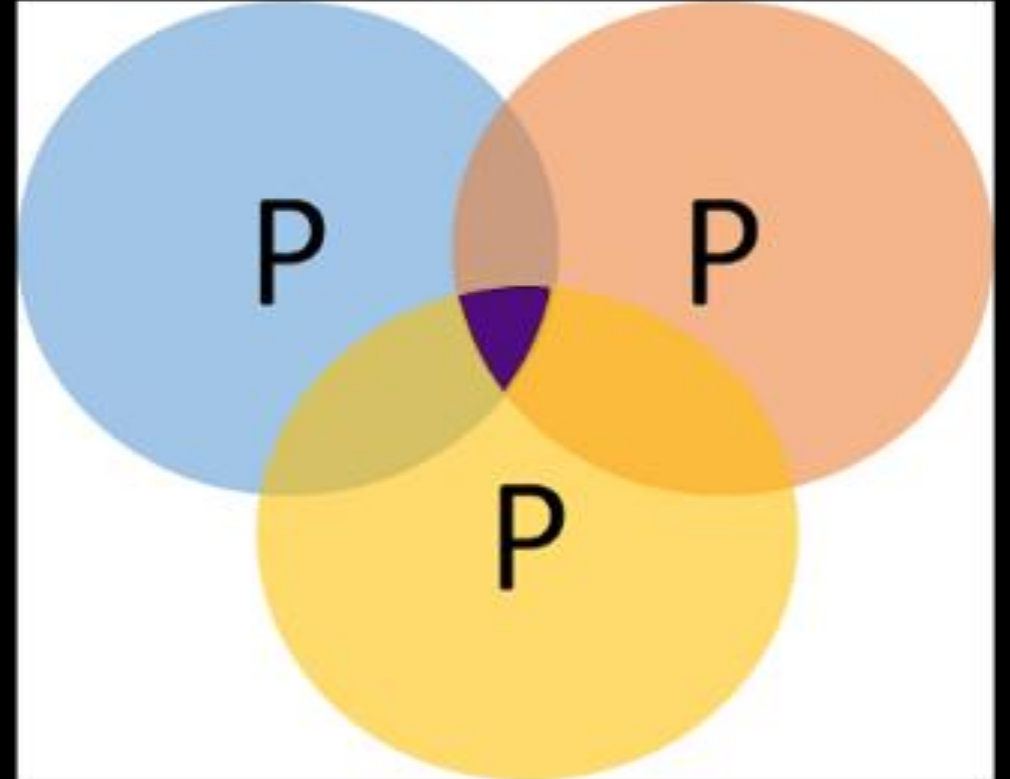
Deputy Director for Sustainability

California Department of Transportation

Understanding Sustainability



Equity + Economy + Environment



People + Planet + Prosperity



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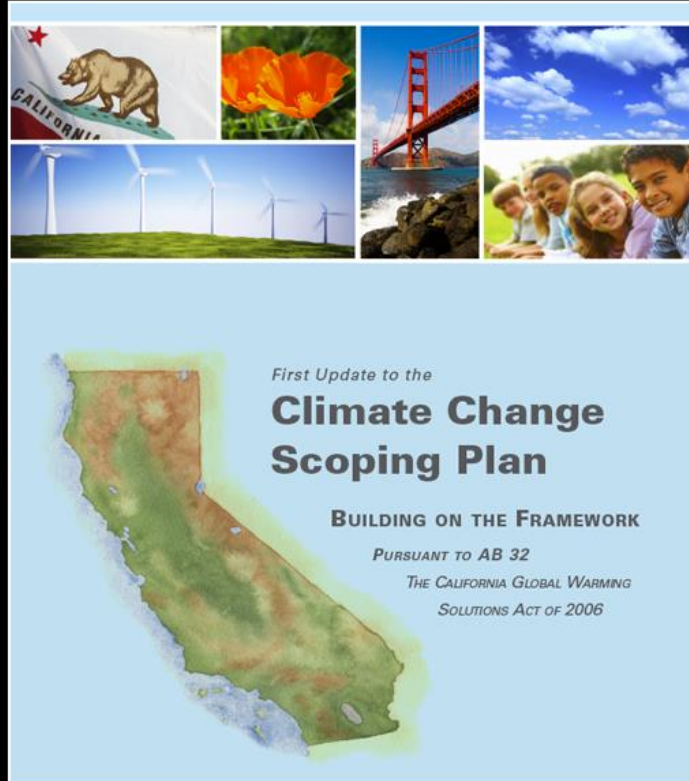
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Sustainable Transportation Efforts – Key Elements

- **Scoping Plan Mobile Source Strategy**
- **California High Speed Rail**
- **Sustainable Communities Strategies**
- **VMT-based Impact Analysis (AB 743**
- **Zero Emission Vehicle Action Plan**
- **Safeguarding California**
- **Caltrans Plans and Activities**

Scoping Plan 2nd Update

- **SB 350 Renewable Portfolio Standard**
- **Mobile Source Strategy**
 - **Clean Technologies – L/M/H Duty + Transit**
 - **VMT Reduction**
- **Low Carbon Fuel Standard**
- **Sustainable Freight Action Plan**
 - **Freight Efficiency**
 - **Transition to zero emission technologies**
 - **Freight Competitiveness**



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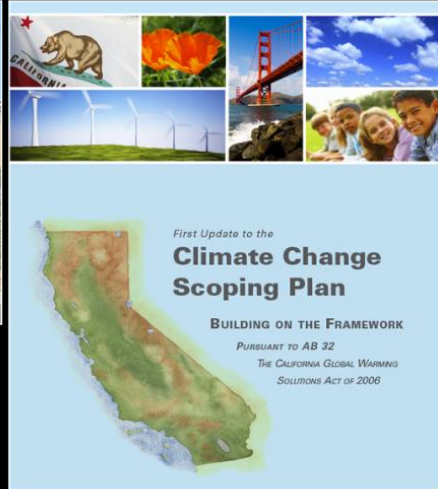
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SB 1

The Road Repair and Accountability Act of 2017

SB 1 Highlights

- **\$52.4 Billion over 10 years**
- **Revenue split local/state**
- **“Fix it First” emphasis**
- **Transit operating and Capital Funds**
- **\$1B Active Transportation Program**
- **New multi-modal “Congested Corridors” program (general purpose lanes excluded)**
- **Maintenance Projects to incorporate Sustainability Objectives**
- **Sustainable Freight Action Plan**

SB 1 and Sustainability

- **System preservation**
- **Multimodal programs**
- **Expanded Active Transportation Program (ATP)**
- **Advance mitigation program**
- **Funding for adaptation planning**
- **Workforce development**
- **Sustainability themes used as project selection criteria**
- **Integrated approach to Congested Corridors:**
 - **“Projects designed to achieve a balanced set of transportation, environmental, and community access improvements within highly congested travel corridors throughout the state.”**

Caltrans Sustainability Policy

- Sustainability Program in Director's Office
- CTP 2040
- Strategic Management Plan 2015-2020
- Roadmaps (ZEVs, Green Building, etc.)
- Continuing work with partners
- **Caltrans Two-Year Plan**





Strategic Management Plan: Goal 3

System Goals

- **Freight system efficiency**
- **Mode shift:
double/double/triple**
- **Reduced GHG and criteria
pollutants**
- **Reduced VMT/capita**

Department Output Goals

- **Reduce internal pollutants**
- **PAL Scores**
- **Operational resource
consumption**
- **Reduce Operational GHG**
- **Corridor Planning Framework**
- **Corridor Plans**
- **Green Infrastructure**



Two-Year Plan

- 1. SB 1 Funding Package**
- 2. Road Charge**
- 3. Bike & Pedestrian Safety Plan**
- 4. Accelerated Bridge Program**
- 5. Integrated Corridor Management**
- 6. e-Construction**
- 7. Tier 4 Equipment Pilots**
- 8. ZEV Action Plan**
- 9. Complete Streets Action Plan**
- 10. Sustainable Freight Action Plan**



Two-Year Plan: Funding Package

- **10-year, \$52.4B investment in state infrastructure**
- **Split 50-50 between state and local investment programs**
- **\$8.65B for public transit and active transportation planning**
- **\$8.85B for multimodal transportation improvement projects**
- **Caltrans: aggressive hiring plan to implement programs**



Two-Year Plan: Road Charge Pilot

- Pilot program under SB 1077 for reporting and collecting payment for miles traveled
- Live pilot recently completed with 5,000 vehicles; Caltrans working on analyzing results in final report
- Possible long-term replacement for state's gas tax
- Could be viable strategy for reducing VMT

Total miles driven by pilot participants:

3	7	2	5	8	8	6	6
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Two-Year Plan: Bike & Ped Safety Plan



- **Long-term objectives:**
 - **Create comprehensive ped and bike safety program**
 - **Study high-collision concentration locations**
 - **Develop tools and programs to reduce fatalities and serious injuries on highways**
- **Two pilots:**
 - **Pedestrian Safety Improvement Monitoring Program (2016)**
 - **Bicycle Safety Improvement Monitoring Program (2018)**



Two-Year Plan: Accelerated Bridge Program

- **Objectives:**
 - **Streamline process to build, replace, or rehabilitate bridges**
 - **Use innovative methods to reduce construction impacts**
- **Sustainability benefits:**
 - **Reduced Truck VMT**
 - **Removing extra-heavy load vehicles from surface streets**





Two-Year Plan: Integrated Corridor Management (ICM)

- **Manage transportation corridors as multimodal system instead of individual assets**
- **Caltrans will complete five ICM plans by 2018; implement three corridors by 2020**
- **Sustainability benefits:**
 - **Improved multimodal access**
 - **Travel-time reliability and system efficiency**
 - **Increased throughput of people and goods**



Two-Year Plan: e-Construction

- **Implement mobile devices for field construction**
- **Pilot project completion date: Spring 2017**
- **Sustainability benefits:**
 - **Eliminate paper documents**
 - **Reduce operational VMT / GHG**





Two-Year Plan: Tier 4 Equipment

- **Objective: reduce emissions from construction equipment**
- **Two construction pilot contracts in 2017 requiring Tier 4 off-road diesel equipment**
- **2018: Caltrans to establish ongoing program requiring Tier 4 equipment on select projects**
- **Reduce GHG, diesel particulate, and NOx emissions**



Two-Year Plan: ZEV Action Plan



- **Objective: achieve targets in Governor's 2016 Zero-Emission Vehicle (ZEV) Action Plan**
- **Caltrans to place fast-charging units on statewide corridors**
- **Identifying three sites for retail hydrogen fueling stations**
- **Increasing workplace charging stations for Caltrans staff**
- **Increasing fleet ZEV purchases and fleet charging units**
- **Working with Public, Private and Nonprofit Partners**



Two-Year Plan: Complete Streets Action Plan **Implementation**

- **Integrate smart mobility and complete streets principles into planning, project development, and delivery**
- **Efforts expanding to address Mode Shift goal in Caltrans Strategic Management Plan**
- **SMP Goal: 39% of projects with complete street features by 2020**
 - **Ex.: ramp improvements, bike/ped gap closures, bike lanes and cycle tracks, transit pull outs and stops, lighting, park and ride lots, etc.**
 - **35% of planned projects have complete street features**



Two-Year Plan: CA Sustainable Freight Action Plan

- **Caltrans objective: Improve freight system efficiency**
 - **10% by 2020**
 - **25% by 2030**
- **Freight efficiency: GDP relative to CO2 emissions from freight**
- **Caltrans pilots in Freight Action Plan:**
 - **Advanced technology at border ports of entry**
 - **Advanced technology along SoCal freight corridors**
- **Cross-program, cross-agency Plan creation & action**

Caltrans Sustainability Policy: Closing Thoughts



- Caltrans policies and plans address both direct Department actions and broader goals for the transportation system
- Action and success are easier (though not always easy!) when direct department actions are called for
- Goals for the transportation system as a whole require renewed and intensified effort and continual collaboration with partners in all sectors

Caltrans Sustainability Action Plan Update



- Elevating a short list of priority efforts
- Aligning Action Plan with SMP
- Addressing SB 1
- Improving usability
- Guiding District sustainability efforts



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